## SEQUENCE LISTING

- <110> Benson, Timothy E
- <120> CRYSTALLIZATION AND STRUCTURE DETERMINATION OF STAPHYLOCOCCUS AUREUS THIOREDOXIN REDUCTASE
- <130> 00032.US1
- <140> Unassigned
- <141> 2001-04-03
- <150> 60/195,055
- <151> 2000-04-06
- <160> 3
- <170> PatentIn Ver. 2.1
- <210> 1
- <211> 320
- <212> PRT
- <213> Staphylococcus aureus
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- Glu Val Glu Asn Phe Pro Gly Phe Glu Met Ile Thr Gly Pro Asp Leu
  50 55 60
- Ser Thr Lys Met Phe Glu His Ala Lys Lys Phe Gly Ala Val Tyr Gln 65 70 75 80
- Tyr Gly Asp Ile Lys Ser Val Glu Asp Lys Gly Glu Tyr Lys Val Ile
  85 90 95
- Asn Phe Gly Asn Lys Glu Leu Thr Ala Lys Ala Val Ile Ile Ala Thr 100 105 110
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Gly Arg Gly Val Ser Tyr Cys Ala Val Cys Asp Gly Ala Phe Phe Lys 130 135 140

Gly Thr Phe Thr Thr Lys Phe Ala Asp Lys Val Thr Ile Val His Arg 165 170 175

Arg Asp Glu Leu Arg Ala Gln Arg Ile Leu Gln Asp Arg Ala Phe Lys 180 185 190

Asn Asp Lys Ile Asp Phe Ile Trp Ser His Thr Thr Lys Ser Ile Asn 195 200 205

Glu Lys Asp Gly Lys Val Gly Ser Val Thr Leu Thr Ser Thr Lys Asp 210 215 220

Gly Ser Glu Glu Thr His Glu Ala Asp Gly Val Phe Ile Tyr Ile Gly 225 230 235 240

Met Lys Pro Leu Thr Ala Pro Phe Lys Asp Leu Gly Ile Thr Asn Asp 245 250 255

Val Gly Tyr Ile Val Thr Lys Asp Asp Met Thr Thr Ser Val Pro Gly 260 265 270

Ile Phe Ala Ala Gly Asp Val Arg Asp Lys Gly Leu Arg Gln Ile Val 275 280 285

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|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Gly        | Tyr        | Thr        | Ala<br>20  | Ala        | Val        | Tyr        | Ala        | Ala<br>25  | Arg        | Ala        | Asn        | Leu        | Gln<br>30  | Pro        | Val        |
| Leu        | Ile        | Thr<br>35  | Gly        | Met        | Glu        | Lys        | Gly<br>40  | Gly        | Gln        | Leu        | Thr        | Thr<br>45  | Thr        | Thr        | Glu        |
| Val        | Glu<br>50  | Asn        | Trp        | Pro        | Gly        | Asp<br>55  | Pro        | Asn        | Asp        | Leu        | Thr<br>60  | Gly        | Pro        | Leu        | Leu        |
| Met<br>65  | Glu        | Arg        | Met        | His        | Glu<br>70  | His        | Ala        | Thr        | Lys        | Phe<br>75  | Glu        | Thr        | Glu        | Ile        | Ile<br>80  |
| Phe        | Asp        | His        | Ile        | Asn<br>85  | Lys        | Val        | Asp        | Leu        | Gln<br>90  | Asn        | Arg        | Pro        | Phe        | Arg<br>95  | Leu        |
| Asn        | Gly        | Asp        | Asn<br>100 | Gly        | Glu        | Tyr        | Thr        | Cys<br>105 | Asp        | Ala        | Leu        | Ile        | Ile<br>110 | Ala        | Thr        |
| Gly        | Ala        | Ser<br>115 | Ala        | Arg        | Tyr        | Leu        | Gly<br>120 | Leu        | Pro        | Ser        | Glu        | Glu<br>125 | Ala        | Phe        | Lys        |
| Gly        | Arg<br>130 | Gly        | Val        | Ser        | Ala        | Cys<br>135 | Ala        | Thr        | Cys        | Asp        | Gly<br>140 | Phe        | Phe        | Tyr        | Arg        |
| Asn<br>145 | Gln        | Lys        | Val        | Ala        | Val<br>150 | Ile        | Gly        | Gly        | Gly        | Asn<br>155 | Thr        | Ala        | Val        | Glu        | Glu<br>160 |
| Ala        | Leu        | Tyr        | Leu        | Ser<br>165 | Asn        | Ile        | Ala        | Ser        | Glu<br>170 |            | His        | Leu        | Ile        | His<br>175 | Arg        |
| Arg        | Asp        | Gly        | Phe<br>180 | Arg        | Ala        | Glu        | Lys        | Ile<br>185 |            | Ile        | Lys        | Arg        | Leu<br>190 | Met        | Asp        |
| Lys        | Val        | Glu<br>195 |            | Gly        | Asn        | Ile        | Ile<br>200 | Leu        | His        | Thr        | Asn        | Arg<br>205 |            | Thr        | Glu        |
| Glu        | Val<br>210 | Thr        | Gly        | Asp        | Gln        | Met<br>215 |            | Val        | Thr        | Gly        | Val<br>220 |            | Leu        | Arg        | Asp        |
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260 265 270

Ala Thr Gln Thr Ser Ile Pro Gly Val Phe Ala Ala Gly Asp Val Met 275 280 285

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Lys Pro Leu Leu Phe Glu Gly Trp Met Ala Asn Asp Ile Ala Pro Gly 35 40 45

Gly Gln Leu Thr Thr Thr Thr Asp Val Glu Asn Phe Pro Gly Phe Pro 50 55 60

Glu Gly Ile Leu Gly Val Glu Leu Thr Asp Lys Phe Arg Lys Gln Ser 65 70 75 80

Glu Arg Phe Gly Thr Thr Ile Phe Thr Glu Thr Val Thr Lys Val Asp
85 90 95

Phe Ser Ser Lys Pro Phe Lys Leu Phe Thr Asp Ser Lys Ala Ile Leu 100 105 110

Ala Asp Ala Val Ile Leu Ala Ile Gly Ala Val Ala Lys Arg Leu Ser 115 120 125

Phe Val Gly Ser Gly Glu Val Leu Gly Gly Phe Trp Asn Arg Gly Ile 130 135 140 Pro Leu Ala Val Ile Gly Gly Gly Asp Ser Ala Met Glu Glu Ala Asn 165 170 175

Phe Leu Thr Lys Tyr Gly Ser Lys Val Tyr Ile Ile His Arg Arg Asp 180 185 190

Ala Phe Arg Ala Ser Lys Ile Met Gln Gln Arg Ala Leu Ser Asn Pro 195 200 205

Lys Ile Asp Val Ile Trp Asn Ser Ser Val Val Glu Ala Tyr Gly Asp 210 215 220

Gly Glu Arg Asp Val Leu Gly Gly Leu Lys Val Lys Asn Val Val Thr 225 230 235 235

Gly Asp Val Ser Asp Leu Lys Val Ser Gly Leu Phe Phe Ala Ile Gly 245 250 255

His Glu Pro Ala Thr Lys Phe Leu Asp Gly Gly Val Glu Leu Asp Ser 260 265 270

Asp Gly Tyr Val Val Thr Lys Pro Gly Thr Thr Gln Thr Ser Val Pro 275 280 285

Gly Val Phe Ala Ala Gly Asp Val Gln Asp Lys Lys Tyr Arg Gln Ala 290 295 300

Ile Thr Ala Ala Gly Thr Gly Cys Met Ala Ala Leu Asp Ala Glu His 305 310 310 315 320

Tyr Leu Gln Glu Ile Gly Ser Gln Glu Gly Lys Ser Asp 325 330